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CONTEN

THE ADO PRATE

■ Data Statements 5

■ Trailbluzer - Game of the Month 10

Florest & 65 8811886 Let & 1206 00 00 3 4

Easy Enter
 Software for Sale.
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■ Write On. Parasoft's 8 ■ Disk Doc.

Disk Doc.
Stuart Cooks on a new utility.
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Extended Basic
 How to use our Extended basic.

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 Switch on Adamsoft's Video Basic.

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DATA STATEMENTS







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Trailblazer

TIGHTOTALOT

Ever functed yourself as a football travelling along an interstellar bypass? You Have? Gremlin's latest masterpiece can

By Staget Cooke

esty seads on Lindoln in the reach boar in a filled harmonic than the latest release from Creedia Graphics will have disching again.

A's not or prouch the fact that there are thousands of trying to reach the same destination tin fact there are not set of the properties. It is the fact that there is not set of the properties, it is the fact that the quality or read in an pose. You could say it is fairly reminiscent Sandag drive across the MSS.

I magain thes. You are a forebull, you I know that is he to inaughte but do try, travelling down as interestled by a OCL, so it in a faste hard to image but I'm sure the begon insecurity in the control of the control of the control of arrend on emilions of units. The COC's arrent is agild into two sections. The top has to record one of the control of the top of the control of the control of the control of the top of the control of the control of the control of the top of the control of the contro

we access being one player's view of his, half and the to bead of it, the brains half being the second player's view, as the game states yee was readed that the reads byth course, and it which you will, are sell for the distance or player plant along state. See a Morris oblaws that the plant along state. See a Morris oblaws that conceal grapers of the self-see and the self-section of the self-see and the self-see and the self-section of the conceal grapers. It is stade up of much collision of the conceal grapers of the self-see and the self-see and power of the self-see and the self-see and the self-see and the arm power shalf for other disappropriate self-see from manuscripts.

company control, which was travelling as company control, which was travelling at company control of the contro

Confusing.

Numerous playing options as can have a one as two player as



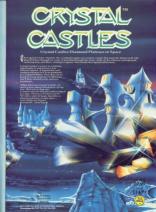
given solven jumps which makes it even renkier. A no physyc trial game allows over to get used to the base year half down a series of greater resets and the final allows to our own games in which it not the

altions you to rear against a solved, which is not that come been.

Deep controlling the game in extremely ware, Franciscal Binks no speed was made to be come. Left and Highe so me than the controlling to the controlling t

On second thoughts a Sonday drive around the M35 in pictic compared to this game. Full apped about 500 one bot compared shap and bay a cope. Mind you wishin you? I across, after a few been playing this game you? If be just about ready so put your joynick through it. Transition.

Greendin Graphics, Alpha Bonne, 10 Curver Storet, 51 4FS, Tel: (0542) 753423. Gregoudy: 10FB, Graphics, 9/T0, Playability: 10F 10FB.





Write On

Into the **Eighties**

Rv S.L. Chance.

Trev works ago an actron-bisent of

O64 LISTING

before entering program.					
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59 18 FOR2-8T0433: C-0: FORE-83				135 0414 61,00	
36 28 88-9AL1894): Trascretti					
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28 11 BENDONES IPOROS OTTHE					
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				,00,03,60,68,09.	
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40 160 9834 10006, 10, 40, 50, 60			All		
TO 183 BASA PP, IP, 83, 61, 20, 81 A, 24, 40, 77, 10, 10, 40, 60, 17, 60 (62 BASA 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 60, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	V1 66		AL		14 m m 4 5
1,90,09,20,10,11,00,43,00,					
129,FC,48,00,80,A9,2399					0,1604
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83 100 84% 80.43,44 (09.00,85 1,38,40,89,00,85,78,89,40, ,65,40,00,83,00,91,274					
49 (85 865) 78,45,79,67,57,59					
49 185 BATA FE,AS,FB,CV,SF,CO F,AS,FT,CP,FF,DD,CS,AO,CA			23		
,00,01,88,FC,6G,FE,3813					3,2783
12 190 BASA \$3,45,60,75,1813					
C.85,FC.80,RO.A8,F1.80,F9,					
90 193 DATA ON. 09. BA. 29. PT. 65	F 50		20		Cicoec



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Super Diskdoc

Whatever your machine or disk drive, this utility fron Precision will certainly help sort out any disk problem

All is disk drive overces at some looms as mother will have resid to LOAD as recupron from data each so find that the comparts official drive assumption to the comparts of the comparts become on generally ober 10 the recupron becoming correspond to the color. This and many other problems can be covercome with Super Database from Proprises Suffances.

One occupiest Sustains of this

One excellent Marian of the propagation is had well work who per subsent any Communities consipator. In subsent any Communities consipator, to making the consistency or are ming and adjust street upon booking to said the contributions in which you are smoothing. For example, if you are ming concluding. For example, if you are ming concluding. For example, if you are ming contributions model the deploysers of the contribution of the co

The around requires consumers are number of reason and distance bear of citigality of the data that is current ded in the buffer. Data in designate the constraint of the cons

dains briefly what each commit is that appears on the line below my whenever you select an opti

The decementation registed with the program is not convolved system being program in the program in the control convolved system being a control contr

d files on some dent, custing other or everytaged about the relation of the bit this design greater on assist excessions, their facility is a life is An explanation in who gives on the excessions a Data. Checkwart error the decaded error 23. This masses the data has been read from this appoint its percent reading the facility of the control of the c

Menu Options

such a program is to actually were ough the main menu command be swand. The first command available DK. This is the menu for disk and

Control of the contro



Drive - which alliers you technic the drive yea are working on.]

Unit - this lets you change the that you are working on (K.8 or Report - this checks a whole determen, output is to either son printer.

Report - this checks a whole disk for errors, output is to either somes or pristee.

Change - to tell Juniabe that you are removing the eith.

LOG - duplays a discessey of the dask signed the size of the file, the track and

sector of the first block of the file. If file is a PHG file then the start adds is given. In fact all of the informat that you would ever require. Hatt - starthes the file for the over sense of a string of characters.

Heat - marries the disk for the occnesse of a string of characters. Memory - allows you to enamine a change data held in the disk chiloraral memory. Seet - allows you to alter the order

the files on a disk.

GO - reads into the buffer either th
first sector of the disk disectory, th
BAM or the header.

Bait - allows you to select whether th

disk is indistined before the first operation. Name - allows you to change the disk name. Validate - tidies up your cleix directory

an the income door. We communicate the communication of the communicatio

the disk.

As you can not the sample of click.

As you can not the sample of click related to enemands is quitte freezinghet, and we've only taken inch at the first memo option.

Most one our list is the first commands of the first the first commands of commands that she first you to carry out operations on population on the disk. Again a bat of

this.
Find - reads the first sector of the specified disk fits into enemory.
Chain - this command lists all sectors belonging to a specific file. A program is stored in more than one place on a

Discount of the second of the

fife from with the Find option above Hamiltonian process of the sand halfway agreement of the Find and occurrences of appending obtaining of data.

Lock.—Commodore disk defines allowate to with process of disk on that you can't accuse to other process of many occurrences of the contract of the contrac

born citis.

Resource — we have all deleted files for a clark accidentally. The option time recover are exactle file from the dilaterpast — this allows you to display dots data as Test. Basic, 65 assembler code or as serves coplemently smell if you are trying diamounthin programs from data. Vieth — delete the control of the Vieth — delete the control of the Vieth — delete the control of the

Decremely south if you are trying discounsible programs from this, whith - thecks than every file is a disk firectory has the same assumes blook on them you to descripe, southfills you fair file is also should be proposed to the file of the file is also should be proposed to the file of the fi

ure the constantion. Track and Some thirds allow so to specify which the and soccor you wish to look at. Ro simply much like selected soccor in the buffer while "write" misses; to suffer to the specified area on the suffer to the specified area on the law for the surprise of the surprise with the surprise of surprise surprise of surprise of surprise surprise of surprise of surprise surprise

do this. Data is noticed by entereither ASCII characters or her decimal values. All operations a carried out is a large edding area we the camor keys to help you not areasol. Once you have made chang-(or not) you can get a permane. second of the sector on your printer with the print command.

Easy recoverence around the dish is current for by the 'baca' and 'bac' commands. 'ber's 'simply looks at the solution you are working on to find out where the not event inland within it where the not event in land within it to be a supplementation of the bar 25th Oblahor steems a lyoner of the last 25th outlook where is lyoner of the last 25th

stored and movies you to it. Super-Dubble stores is sweet of the last 256 sociales that you have tooked as, 'said' singly looks up the last sector from the last and movies you these.

The filed projects is similar to the file ideas the last sector of the last seek of difference being that this size the program does not follow the file through.

Yeeffel

Verdiet Taper Dishdo

widest range of disk ovientands commands that I have one across in one place. Sure, there are programs recomed that do sindar things but the sheer complexity and range given by this program is assumpassed. The programs is superful processed and the norm system makes a extremely may to use.

even happen to some pure been pure acyear happen to our your finger. If y are serious about the use of your of civir and the data you steen, i probably a good idea to buy a copy this pragram now, just in one to coverupt your dale. You may not seen now, that wouldn't, it be note to kee it's always those?

Machier Phar4 C64, C128, Commolev 4800,800,300/8128 + mon disk érives. Supplier: Precision Safrinare Lei, 6 Peek Terrece, Borcoster Park, Sarrey KT632Z, Tel Maria Tark.

Disk Utility

Disk Drive owners shouldn't be without this

here Commodere designed the 1541 they gave is quite a complex sange of built in instructions. However they did make it guite difficult to use there. This unity, given smap FRLII, with this issue of Four Commodere will make accessing your dark drive

raske accessing your shak drive extremely eary. Not early are the standard commands made early ros occurs, but a pitchers of new and extremely powerful utilities have been added. For example you can now find the tast addisse of any program or check a field for extres.

The steen program is reconstructed as a consequence of example, one by a new Sample LOAD the programs from constitue and a self-angionationly start. If you should want to SAV III to only your considerable was to SAV III to only your consequence of the self-angional start of the self-angiona

be asked if you want to change colours of the screen. Duce you I does this you will go to the main me Figure 1 shows all of the analifanctions, we will deal with each or

A) Alter Star

or you are no doubt aware when you over a file to disk its load address, well with the file. This function filess you so change this address to test it will LOAD at any address the and it will LOAD at any address the property of the second second second second and it will be second second second and the second second

B) Convert Number

When duding with disk program
apocally machine code, it is qui
often necessary to change number

auction will allow you to per f the following number con

Decimal to Hex Binary to Decimal Decimal to Binary

C) M/C Data Maker
This fraction will allow you t
any machine code file that is a

any machine code file their is on all into a Basic Londer. Each type of a specified file is read from click a solded to a basic class stamment. On the program has been converted bouter in added to the start of the Dabush of the program is served to disk. Dr. Dissectory Communed

and the progres is saved to disk.

D) Directory Command

This option brings up a second me
is which there are a mamber
streamly assist commands to
barding year disk directors.

S - List directory to

ny This prints out a list of programs on a disk ones the set L - List directory to the printer

This does the same as the above however, the list is sent to the Prints A commodore printer is assumed.

N - Write instalble directory to dis-

the directory in such a way that you can be and because and the directory. All of the

programs from prying eyes.

8 E - Write no directory load to did

This command has a similar res of to the above. However, instead or making an invisible directory it w

p - Protect files against scratchi

AN ESP PRODUCTION

NLT START ADDR 6) FILE CATA CONVERT NUMBER H) I.D. CHEC M/C DATA MAKER I) LOAD ADDR

C) M/C DATA MAKER I) LOAD ADDR D) DIRECTORY CHOS J) FILE SCRA E) DISK CHECKER K) F. UMSCRA

I) Load Address

*) Disk Commands

LIST DIRECTORY TO THE SCREEN

LIST DIRECTORY TO THE PRINTER

WRITE INVISIBLE DIRECTORY TO DISK

DIRECTORY LOAD

PROTECT FILES AGAINST SCRATCHING

RETURN TO MAIN MENU

READ AND CHANGE DISK HEADER OR ID

Getting it **Together** If you're thinking about buring an assembler then you're

probably mystified by the wide choice. Look no further

By Allen Webb

Many of year will be comen

What is an Assembler's



Laser Genius

Arrow :

ZEUS 64





C16 Sound Sampler



To play a sound

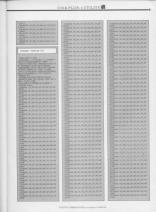
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Loading and saving sounds

Loading



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Extended Basic

Paul Eves presents a Basic extension that adds 27 useful commands to the C64's extremely limited Basic.

d in very heating. No interactions rembered should be replanpercified to help you wift such free enough; REMUM spans printing wherevery free works in REMUM sensitive the whole of the for or cose sensitivities your term of 5.

The AUTO command of the command of the command of 5.

pregram.

The extended Barie gives away free with this mouth's ireas of Year Commoders changes all that. A total of 27 new commands have been added that you will no clouds find towalsable in your did no don't find towalsable in your day to day pregramming.

the canath in your casette receder go and type LOAD "EXBAS" and prove in EFFUEN. Once the program has be lasted loading it will amount itself or and it will be ready for your.

ESTUDY, Once the program has I bashed loading it will amount riself and it will be ready for use.

General Toolkit Commands

Toolist or programs divolograms a conmanda are probably the guestest in reason form of instruction on the CM. How many times have you written as Busic program that the line numbers were in the outh 18.27(1,17) at, ex. Wondsfor' in RENUMHER comment of the content of the content of the content of the world of the content of the content of the manks (file a lot easies, with one provide aget one as well as many sover of the

RENUMANA

e renamber should stare. It is no the e whole prognant in renambered, y is e new incoment for the lines. If is 10 thes the lines would may up it no, if it was 15 then the line number roll be 15 apart. y is the new start line. This is the and a second of a sea a task subber of 5. The AUTO command will as natically generate line numbers on. Enter the command AUTO II ad you nill be prompted with the subber 30. Freigh typing in that you BETUEN and line 20 pope is the mater. If you would need to

of the enagin. If you would rather his year program starting at the 10 support going ago in steps of 30 then you wan samply entire the command. ATT \$0.02. When you want to quit if command simply pass RETURN or \$0.02. When you want on quit if command simply pass RETURN or the number and not like the \$0.00. It. Once you have finished writing pour support of the program shows that are:

bound to be program from that are not impact another. Then's an cury one yet as, simply type the number of the line cannot be used to delive 20, 30 or ones 100 used This sould obviously take quite marries individually. Well the DLI command allows a block of program contents of the command command to yet or near the command command to yet or near the command command to yet or near the command of the program of the

number, would dolete all lines free member ownsals. For example, "DEI 900, would delete all lines free 300 evenuels. It you wanted to result dock of code in the middle of the regimes you would not the unitation in to form "DEI, number I zumber? This will delete all lines from line unauber "austher I' to line number seather?".

When you come to testing.

WOME THAT THE REAL PROPERTY.

out why. The command DNMP with print out the name and sales of all sariables that have been set up by the program. NOTE: the program eases lave been BEN first or the variables will not have been set up. The function keps on the C64 have always been a late but of a mysterious beast. Unless them on the BC and

cher computers tous car's what a proquant them. Will care you can will the KIY crossmand. This communal is attracted powerful as a know you to some, in each of the function keys, arise write. For example you may want the lay F I to capue your program to be or remarked. Will you can not store the Exercised Basic need REMUM's in the Exercised Basic need REMUM's in the Construction.

or key. The command can take forme.

KEY by knolf will print out a list all of the function keys and the that is staned with them.

KEY number, "sent" will away.

gives string to the nombroad key.

You which some a spore in your
lest you waste near it is a delifted
apout, i.e. pern shift and the sporther.
ESTURNA can be notered by placing
the back arrow at the read of your teld.
For example he's nomen of your teld.
For example he's nomen on any
wanted to patch be twent for on key a
near you meeted a RETURN at the cold

OTE: any of the

reed them off.

Should you wish to turn off if series keys then you should simp nor the command OFF.

oner the command OFF.

When typing in your program is always useful to know how me

FREE SOFTWAR

memory you have left. MIM will display the amount of Busic memory available at any time.

After spending much time at the hayboard there is nothing more frustrating so find that you typed the NEW command and suped out your pragram without SAVEng. It find.

hyphound there is nothing frustrating to find that you type NEW command and supped out pragnate without 5AVEing is. Don't wery the program is st memory and the OLD comman bring it back for you. When you come to checking

memory and the OLD command well bring is back for you.

When you come to checking your pergrams there are two constants that are invaluable. The first of these is that the LET command. Yes fixen is one on the C64, but have you tried to contain the person of the C64, but have you tried to contain thing as it is give off the top of the unual Well LET can be modified to that pressing the SHIPT has well puse.

screen? Well LIST can be modified to that peesing the SHIPT key will pusse the list. NOTE proving down SHIPT LOCK will pusse the fixing used it is situated. To instant this modification you simply enter the PAUSEA command.

The second useful command is the TEACE. function. This command allows you to slowly steps through a program one line at a time, the first number being operated on being displaced on the corner. The THACE

TRACE
You must press the space by serious the sent line, while in

activate the next line, while in true model 19thing a moments key will also the appeal of the trace.

When you have finished with you take you must larn it off with the TROFF command.

Using a Drive

you can a commonwe out as well no doubt find it attenue moreing that you car't look at money of a disk without LOADIN lists memory and overwriting it requires that is there. Well now you at use the DIR coverand which we pegtar the disectory of the dask on it

coon without destroying the program. The spotax for this command in: DBRs where x is either 0 or 1. The 0 and 1 represent the drive numbers. A

present the drive numbers. A subter must always be pionest, if you are a single drive then you must use (BD).

If you should ever have a disk drive

status.

Station and the design of the desig

DISK "command string, string,co"
where command is one of the cle
command and the strings are a
successful with the command, is
counted by the command. It
commands to the command is
commands.

disk.

DISK "V" nell perfeen a valid command.

Playing With Numbers

When developing a program it is qu

When developing a program it is cauciful to be able to transfer main from one base to another. This II provides commands for library librardecimal convention.

B-D number

B-D samber
This command convents an right binary number into two decambers, shown as low byte. Any samber of convenient

NOTE: the system is the same for all convenions.

D-B number
Conversion between decimal and

D-B 3258
prints the result

D-H Number Conversion from decimal possible with this come a 6 before the hexadecimal roa Program Manipolation If you do a list of programmi very handy so have a large sun

If you do a let of programming very handy so have a large number commonly used substructures show disk or cassette. For example you have a collection of special in contines, nonlines to read the joyn port, str. On a standard C84 the

of a program was to type them; it again. Two swe contentable will tar you floor this trouble, these are AP and MERGE.

Let's my that you have a program on disk that has the form

on dak that has the form

15 PEINT "THERE"
25 PEINT "THERE"
and you had pougram to memor
that leaded like this

to PRINT "HELLO" 20 PRINT "HELLO" You can sick the program that is

command. The format for the command is quite simply: AFP "progname", device.

APP "see",8 this would have the program is memory looking like this:

PRINT "HILLO"
PRINT "HILLO"
PRINT "THERE"
PRINT "THERE"

As you can use it will be records use the renumber command to g program time in the correnerical order. The APP command simply all

order.

P command simply add as as to the end of the other of the end of the other of it will still the end of the other of it will still the end of it will be en

Program Readability

Leaving Extended Basic

















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shows the CTRL key as you press N CTRL ber, press the F1 ber and

OUR COMMODORE RESEMBER 1882-08.



[RIGHT]	CRSR left/right	[BLACK]	CTEL & I
(LEFT)	SHIFT & CRSR MOVIGHT	(witte)	CTRL & 2
(DOWN)	CRSR sp/down	(RED)	CTELAI
(UP) Q	SHIFT & CRSR up/down	[CYAN]	CTRL A.4
(FI)	fl key	(PURPLE)	CTRL & 5
(F2)	SHIFT & fl key	[GREEN]	CTEL & 6
(73)	O key	(BLUE)	CTRL & 7
(Fi) IN	SHIFT & D key	[AETTOM]	CTELAI
(23)	ff key	[FOUND]	£
(76)	SHIFT & IS key	[LARROW]	4
(E7)	17 key	[UPARROW]	*

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Games Reviews

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member to the database for create and abhough they back ampeted to the small scene and abhough they back seen, If I have they many sed by humanoods. Unforcement, they housed no robing the five devial. The properties of the standard of the first man beginning to way. It many quite the resistent to the five had a said database they are the seasons to the five had a said database the seasons of the said of the said and provides their of violence and there daths appear mached an abhorstative.

much oil an abstration. The areas also have to lively of the area that you are and you can see varyous devide, redoors and house control and also can see varyous devide, redoors and house properties and the first thing so not in that although you can only too levels on service, as man any constit of secretal see also being to come, as a first product of the service of the servic

hase that you have in not so that sevyreing that seven it is so blast so you.

Your man is nicely naturated in he run round the libersy, cathedral and parks and the music helps maintain the attensphere. Massim A.D. is a nice blood between shoot-om-up



Musion A.D. Suppler: Odin, Wellington Brave, pper Se Mersley Lam, London W.C.M. 901. Machine. 84, Pricer 1818.
Paginality: S/M. Graphics: S/B. Physiolisty: J/M. Fin.



ARCAN

King Yukunqui Ohi badayi reku the Nambanda from ha sanki Ariana. Deep wather the could in the Dark Christic the man percental bada on Bank Maga cerv actum. Namanlay, Yukunqui would keen ta kawe what section are readed to be both that there are prefetors. The signifcent for the both that there are prefetors. The signifcent for the both and the reasy prefetors. The signifer freeds to sudoct and the appeal internations that in records to sudoct it in order records when the light of theelding Moon faits against Actubat is neight, the free of Engree have new yout refet and entere the bods and you

When you are as wife as this layer, we then better a of a clink layer than better a look on hearing definition. The are of actives in the small matter of event devices. We are of actives in the small matter of event devices. We are the small layer than the small layer than the small layer than the size of the layer many means when are the layer on superior energy. To work owners the model for the layer or energy, to work owners the model for layer layer layer than the small layer layer than the small layer layer than the small layer layer layer than the small layer l

TODE WANG Tale: Accuse. Supplier: New Generation, 2-4 Fernise: Persobolio real, London WTI 2DN, Machine: C64, Fr E7-93. Originality: 7/10, Graphics: &/TR: Physiolisty: 9/10, 1

HOODOO VOO

As await, there is a decided doubt of apperhences, you are the code over remaining and here been changed distroying the Bioopalgrop (I fed you away from Kor-Teorribut saik on arriving on the planet in to partial of where the second Biogene (I ferror in the postal of There are no problems in arrands) locating the Corticle (Linguistic Street and Corticle Corticle) and the postal of the postal

assorted nastes as you travel through the hallways. It problem here is that if an also happens to be hid leg b piller when you pure behind it, you lose a hir without ing or noting what hit you. If you manage to complete the coturn journey serv

one to the grant has been accountly state yet to be succeed in the ing the court, you got a mark at the Alaen Processe. He mould appear, in not wantly over conducted by gry mar for which the has carefully study to grant and the processes. He has carefully study to grant and the has a surface of the processes. As a surface was a surface of the has carefully study to grant and and the processes of the has a surface of the processes. As a surface was a surface of the has a surface of the processes of the surface of the has a surface of the processes of the has a surface of the surface of the has a surface of the surf

take for money

Title Mondon Fundon, Supplier thig flyte, Freinry Mo-Lebester Place, london WC2W NVB, Mechine C64, Pt 82-99.



ROIDS

computers on the prototype wanhip Araction and the ship's defense recharism ally been switched into red alore basto re to declary anything and everything that or he planet. Venus is only 24 hours at , as an agent of ILEA (interglact men) have been herefort to about done

By means of a sophisticated teleport system that it is computed in incapable of oversiding, you have been beautiful about the ship and many attempt so close down each off to dock in tass. In order to do this, you must first that it is color to do this, you must first that it is color to do this, you must first that it is color to do this, you must first that it is color to do this, you must first that it is color to do this, you must first that the dock of all french and then control for must only you can then more than

i i

over an extension the management, objecting amount of the overgry of you be. Vice means also avoid bendly contain in here so their defence resolvations: interact with you constig a similar coursy laws. This is nonemetral amonyting when you assure off the object of one servers, you have no an other part assure of the object of one server, you have no an object on with right one so of him, it could be by game as more cyper only have one high.

the type and have one that, one of periodic deck, post and trade a

mobble flickering survolling which I found most off-put.
These grumbles apart, Doolds is a nice mixture of its
all creategy. It would be ideal for someone who feater
mobble Mission a bit too band.

Title Danide Suppler: Angloogic Machine C&A Free C7.95/29.95 cms/disk.
Organics: 1/18. Graphics: 6/18. Flayability: 6/18.

MISSION ELEVA

In Fill is in a race. Foreign agents have taken over on of their Central berliginess Unia and are attempting in blackmail the Accession Government. Unless the White House gives in to the demands, the CEU will be below to high Fernmands, on agent chorected that the boards as laiders on the Affel floor of a bestel and also learned the opening code receivanty to stop the borth from the being delive

raising to leave several class data of round the best waiting for some brain agont to break in.

The best in sphi inh auto of eight floors and before you can move to the rock unit, you fire it must you that was boo hardy county in too featured, must also when the between of the key to the sampging rais. Then in overall by the posture of key to the sampging rais. Then in overall by the posture of the rock of the form of the form.

pairs for their self as you eye at the short of the best and decrease the content. The hard all as in product with several against she will show on talk it is not which without the several against she will show on talk it is not which without the latest as a will be regarded to the self-as a second to the latest as a will be regarded to the second to the product. The best as a will be regarded to the product and the product. The best as a will be regarded to the product and the product. The best as a will be regarded to the product and the product of the second to the product and the product and the second to the second special and the second to the second to the second to the second special and the second to the second to the second to the second special and the second to th

also bashes as famoures although you should be contribciently that you counted, not seemed south given a small charge from made on leading all it has closely and you east should from made on leading all it has closely and you east should have all not the first extragement showmoust though the head in the same of this bases the 10% of the game. Although a sound fastly angle in you, before you first not and some will find counted greating story and the east and some will find counted greating story and the sound of the second pages. A relate conjust accountnessed, appendix the second pages, A relate conjust accountnessed, appendix to be second pages, A relate conjust accountsive story and the second pages. A relate conjust accountmental to the second page is a very difficult in think, in very single to only and always channelly force exemply figure or many play.



TOMB OF TARRABAS

How you ever placed any of these games which are set ranks as assisted such where there are utaken and nevel entances and open. The installable entantees.

There is another in this power and it had no held of ranking and it ranks quest ordered and the rank part of the ranks and it reads and it ranks quest ordered.

There you've writted out here to play the game and here the coursely worth you've hadron place.

enery is not another part of house of propering account regions. It is also because the reason was well used to registers. It is not his first results as an application of the results and the registers of the results and t

hit them whenever you see them.

You may find that this game appeals to you, but on the
whole I their his far too todiess. Even with the limite
sourcey available I think that more imagination could have
memory available.

M.G.

1100 - 180 - 1600 S. S. P. PETROMO, S. SEPEN S. SERVINE Publisherial Facts, Landon Road, Kending KGI 8-42. Hardiner CSS. Originality: A'18, Graphics SeTR. Physiolity; Med. Valu. 4/18.

7/48.

YOURCOMMODORE november 180





Mark Mote, that eternally endowing little abanatur



BEYOND THE FORBIDDEN FOREST

Commissions of Coli games may reasonable the confiferabladas Fortin of accepted of perion age, Well, year in, then in the sequal. For those of you not backy except the original the game were insenting like tile. Note are with your insuly how and arrow must run through het helders force avoiding and helding the monetant had not to get you. The nation appeared in some and or creation as gainst frage and dictations were after you.

consider an game region on motions were considered as descripped in cost of the resignation since the graphics in this game were excremely gaments, especially the spatially their desting tools and over well-fill. We need not also shade the pleasest to know that Boryon the Foreholder Front of their the same amount of homes but with a verw learning tool the same amount of homes but with a verw learning tool Fresholder Front in a game verbrain in frow determines. The four distances are described as the following, fall and right movement as you would expect and the prompt of game as with the original game, the new you con also move water.

right movement as now would expect that the primage of year or with the original pares, but now you can also make it studyin reasoning that and right in those of all the elegent at integrit reasoning that and right in those of all the elegent at least own probability to be a before the elegent at the elegent at least studying the elegent of the throughoused to streat a persistently all the elegent at the elegent of the elegent at the elegent at least play, the elegent elegent in This added dismission certainly slid play. One extraously note touch in the way that both you are play. One extraously note touch in the way that both you are

As previously manifolded you are amond with a bottom row, Controlling this at first is a field bit of a proble you soon become used to it. The reason that it is a little is a little is that on a person of the first bedoten your size is observablely bighter and lioner, whatever position you to the first bestore in is the begind that your amove in fit Chaos you are used to this their control is excellent their start of the genery you will be adoubt find your problems that of the green you will be adoubt find your pro-

arross Bying off cowhere mar the receiver.

As for the recession, set you couldn't hope to m
more diagoning basels. Firstly you Til have to face the we
shick pap out of the ground with a frequency that tell
hast they certainly don't like you. Get no close to or
those and you're sare to be publid under green't fee id
Wyith the severes and you'll so ook no the worm coup

Over you have disputched the women into on to the degreethy. Again take careful aim before this entermolistic fly carrier you off fee in dimen, accomplished by it must gory effects of course. Fedovsing its on to face if chimoto.

As you kill a monator then some reporterion power give

chilaters.

As you kill a monator then some crysterious power give
you a golden amove, to use later in the game. Should yo
leave a life they amove air taken away and you use a
licear said on fight own mee.

chain is off to fight the moments in the undergrand carenta. Firstly you have to face the hast avecoping by you from all directions. Next comes the hydra, a fear handed monator benefiting first at you from a chain month, not a perity sight, Should you ever defent the then it's us to face the utilization monator. The Distinctanges, "Thing belos of the at you from and," by with in a monator that must be desipathful very greatly, it and their in will containly disputely you.

If you arro't appearable thee I suggest that this is a find that as a must in your collection. However, clee's plact to late at high, you never know what might happen.

TOUCHLIVE Name: Beyond the Forbidden Forces.

TOUCHLINE Name: Beyond the Forbidden Forent. Machine: C&E. Suppler: UX GOLD, Usen 2/3, Malford Way, Hafferd, Eveningham, B& 74X, Tel: #2106, 1987.

256-1358. Originality: 6/38. Graphics: 8/39. Playability: 8/39. False. 8/78.



× ...

you spaceship, enemy craft but on your tail and of course to things to shoot.

At first plance W.A.R. does seem to offer a great on near conformat with an excellent sixuling background and of enough fighters, its only after playing it for a short set that the todam set is it.

The actual scenario for the game is a chain of cylinds the inside of solids in a compiler city. Your job is a does need to 22 cylinders each of the which it has a specific page. When you ship species a cylinder a self-destrest lime initiation. After this store has run down as enough por open for the enough or one completely you many get a self-destrest lime initiation. After this store has run down as enough por open for the enough or one completely you many get a self-destrest lime initiation. After this store has run down the complete in the enough port of the enough point of the complete in the complete

and make the stronger before the day by make any approximation of class. The memory fighters as particularly austra and arrest that quick. However occurs to the particularly austra and arrest that quick theorem occurs, before you make the particularly as a fast of the particular and arrest that the particular and are set that. To decode the lock poor mean thook at least an eary task. To decode the lock poor mean thook at least and the particular and the particular

you servined a newtonly to scote your lengt focuses you can get you the lock. I ranch tons a life while banding it out on it syknoles.

In my view W.A.B. in a garne that had a let of poecon which foliol to come through Securior on best door.

DUCHEPAS, Names W.A.B., Price IESS, Machine: Chingplace Mercels, Marrech Branz, Bay Termor, Prononcy, Josef Sanner, 873B 487. Tel. (IEEE) Vol.616. reproduct: 4718. Graphics: 8/38, Playability: 6/18. Val. 18.

MIAMI VICE

Programs based arcoad IV to if flin titles are bound to still askers. This is obviously a special being the short being distributed by the property of the shortware bounds, but I can't belg wendering how the beginn will feel if the gases desers? We specially in these expectations. Minner Vacc, as in many suggests, is beand upon that a strengly peoples IV series of the same range. Covering all the strength of th

You are supplied with a set of possible menting places to be gaspers in revolved with this open, supplies with this intent that the gaspers was ple those. Now appare to the ray problem, You have a drive areas where a possible to the problem, You have a drive areas may be used to consider the ray of the problem, You have a drive areas may be used to consider a relation to the same of corner. Being worked to paid as a whole in this town you would have thought that our become would know theight that our become would know theight that our become would know theight and a shall, a reserved partial getting there are the same of the problem.

Fig. is executely sarge and it is very difficult to drive abound. Ocean has obviously realised this, since, a few days after the game arrived, they sent me a map of the city with all of the bars etc. marked upon it. This was a goldend as I must



quickly and probably accer have got as far as receing

Here governed and one promoting upon a right promotion. Here severn to the cert if you reason shring drawn the resident with changes of the cert. If you reason shring drawn the resident with the control of the cert if you reason shring drawn the resident with the control of the certain shrings and the certain control of the table that there would not possible to write profits or to the right and your back and will using our schedule; the other our and selecting your back to be start. If you when chird colours to the edge of the road and try to take your life in the same bappers. This makes if approached to take certain circumstances, the only option upon to you to certain circumstances, the only option upon to you to certain circumstances, the only option upon to you to certain circumstances, the only option upon to you to certain circumstances, the only option upon to you to certain circumstances, the only option upon to you to certain circumstances, the only option passes to the certain certain circumstances.

Once you askedly much your destination, if you sevel up you have to be very careful of the min. If you enter the me the creak will upon your car and dive off. If you can receiving pain in yours car and dive off. If you can receiving pain in yours less the creaks will have the livery less that you can front to tight remove after receiving the manner of the providence behind. If you care front to tight remove after receiving has started then you may find a create careful without. If you careful pain is a fail in the providence of the providence of

window. Orestall control of the game in quite simple, even if the actual game play is completioned, though a large number of openions are saided been the joints should be the core of a large openion are saided been the joints should be the core of a ladequate with a superh smooth servicing only that games are from above. The meeting places, there are open will datable and searching through the rooms leading for the modes and evidence in quite attemption.

Than of the TX series will no death term up their Ts vision as a the faciliar TV through and red contain it of the computer, played at a high velocity to exceeding to chasing around a twen looking for contain the containing that the six the fact that they have been contained to the six the fact that they have been contained to the containing that the six the fact that they have been contained to the containing that the six the fact that they have been contained to the six the containing that the six the fact that they have been contained to the six that the

Supplier: Ocean, Ocean Hunne, 8 Central Street,
 Manchester M2 SVS, Tel: 063-832-6633
 Originalty: 8/28, Graphics 8/20, Playability: 4/38
 6/38.

OKE nanomber 1988 61

scientists have landed on an artificial world. Everything was

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Pick of the Sticks

If all that zapping has floatly left your joystick in a state of collapse then read on to fload out the best bays for games players.

By Eric Doyle

We're all heard that a bud workman blames his ton's but there and occasions when the workinam may be bud because of his ooch. Choosing a joystak is far more than join stringing, along with the latest trend. Pender on the expensions complexities and you'll soon appreciate the art of the joystick maker.

solich haid to use. Left deindedores in no longer considered to be a visitor delect so the perfect stick should be openioristical, in simple terrors the nesses that if the fire bullon is not containly positioned then there should be town of them. The second consideration is a table mere tricky because it depends on your

cities. Problem mainter one is how large in the human hard? Obviously there is no fixed only, all hands an different and on this area in open is much speechation. See the same production like where It have did not which the where I have did has production like where I have did ha the thickness of the chocolate but in the test he of the year of the average is haded. As a packer I know their is hadded of kin Kyan weedshid had nicely into a bea, dissigned to held IX, which much they do received in the contion of the chocolate is an analysis of the main of the polymers. it is with joysticks. Choose using size and year gameple; fire.
Finally, no must consider unitivity and reductions of the

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out the necessary standiness. This has le ay will field wide open for indeper companies to provide a range of

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neight lifting the Misso-Are in held. It his the same design as the Percept for one created difference. It is another to the created difference is another of the charger unit and the Misso label refers to the use microwiseless internally. These is concerned to the control of the control of





Contributions



Letters

Your comments on Your Commodore and everything else about computers.

Instanted

Laror mountly obtained a CMs and present are not clear than I michael on holing Maintertransic Softmann. I have many take-filled Kingson. Quode, E222, Edikarer, Menser of product, for Palicia, to asser but a few; increasing, telling and a few; increasing, telling and a few; increasing, telling and a few; increasing, and large filling and increasing the game quiet, and increasing the game quiet, and increasing the game of the production of L199. I Dista that Maintertransic design.

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Tare Cosmodore, conduct

Lastle, What does CP/M stand

Lastly, What does CP/M stage?

Invited M. Thumben, Dundoe

F/M stands for Coneval Program,
histoprocessors. Not very helpful is

ir basically a system to make; a

multiple of data o lot simply. There

NY baweaky a system to make fi hundling or dath of his highly. There a several bheasand: CP/M program available (if) sheen going since (97) Try Septembl. 5-7 Fertinan: Rus Malidonhood: Perishine 256: 1399-15 (629-75)71) for further details. Was falser issues for one ferthcoming serior CP/M. Your regular reports on the latest if Company and Microryt Company and Corner soffsiretly wheated my appetit become involved in the world communication.

I have a Crid and I wish to be

I have a Colt and I wisk to be readen to use with Finan could lift for \$2 \times Contended or modern severa Marcout as well as Contended or modern severa Marcout as well as Conque Also, and these any other more residely, apart from Contended which are capable of sever Computed.

Before I gr., I would just like a short just like a shor

ng - ir i the only one on the breb has interesting and int icles and reviews, and it's so e money. J Adams, Dorchester

and Microner, Before you dish or buy mee, cast an eye ever our Ch special offer (Vs for C64 sures as you know). Thanks for the kind and keep populing the magazine. Sweet C167

now find that I can't get magazines is. Tell are why one can't get magazi for the CIDS.

I have looked from shop to shaloo from nown to raws. I field the should have been nelvised when I if bought the Commodore Starter Pa Rhydrye Jesses, Rhyd.

that a companier magazine for CMS I feel the overprised V Commodister really is a wage of for my requirements with cell handful of pages in each edition. view saying coreprised only mean that see shift of the reach of the re

INTRODUCE YOUR COM DORE CIE. Keria Melleide, Lentock Hall Zhe problem with producing at

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Build-a-Tape

earned the nortware nerit the prescribe to publish. Beer Basic' on cassette tope-size starreety long utility to type in Bloosti, Kempehett Graham, we don't have no other as to do this. Fourth

rish the bluers and back to seriely. YS East

(S Ease proof I cen

princest. I own a Vic 201schable RAM pack, but I will ting a C128 scen. My quario w can I get a small character to one the bottom of the screen ing a part of the programme to?

James Strang, Draylofer

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C64 Autosave

C64 PROGRAM

PROGRAM: AUTU

Please read 'LISTINGS' before entering program

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PS 10 POKE 1,A:1=1-1:D=D+A:0 20 83 35 IFD<>57800THENFRINT"DW ERSOR!":END

ERROR!":END 45 40 SYS52480 C9 52480 DATA 162,0,160,11,142 32,208,140 92 52488 DATA 33,208,232,142,1

92 32488 0ATA 33,208,232,142,11 4,2,202,189 7C 37496 DATA 3,206,32,210,235, 232,224,255 E2 32304 DATA 208,245,107,0,189 11 32512 DATA 210,255,232,224,3

4,207,32 11 52512 harra 210,255,232,224,3 6,208,245,162 70 52500 harra 0,189,42,207,32,2 10,755,232 F3 52528 harra 224,24,208,245,32 ,228,353,201

226,253,201
32,5256 ANTA 66,240,7,201,48,2
40,3,76
65 22544 ANTA 52,205,133,254,16
9,13,32,210
50 25252 ANTA 225,169,71,133,25
1,133,252,120

1,133,232,120 1,3230 DW7A 169,34,169,205,14 1,20,3,140 5,5256 DW7A 21,3,86,76,116,16 4,165,197 5277 DW7A 201,4,240,11,198, 231,208,4 20,3236 DW7A 198,232,240,3,76,

26 32384 DATA 198,252,240,3,76, 49,254,120 69 52592 DATA 169,49,141,20,3,1 69,234,141 A2 52600 DATA 21,3,88,32,240,20 5,169,0 CD 52608 DATA 162,24,357,0,212,

5,169.0 CD 32608 DATA 162,24,157,0,212, 202,16,250 61 3266 DATA 169,5,161,4,206,1 69,15,161 D7 3262 DATA 24,212,109,17,141, 3,212,169 8E 32632 DATA 248,141,6,212,169

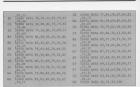
3D 52640 DATA 17,141,4 C2 52648 DATA 00,136,208, 49 52656 DATA 202,208,250,169 6,161,4,212 206,4,206,208,2 155 5,161 50 32672 DATA 4,208,169,167,3 210,273,165 33 32640 DATA 254,201,64,240, 162,8,76

33 32640 DATA 234,201,84,201,5 162,6,76 212,205,1621,5 28 32648 DATA 212,205,1621,16,20 30 32496 DATA 9,162,231,160,20 79 32764 DATA 9,162,231,160,20 160,235,200 150,76,73,203 50,76,73,203 60 32720 DATA 162,235,160,255,

#5 140,453,700 #5 1271,044,706,253,136,208,2 #6 3770 UATA 169,235,160,255,2 0,200,232,138 33 2728 UATA 208,230,96,66,58, 5775 UATA 71,82,05,77,0,147 17 5724 UATA 72,65,65,64,79,32 #7 5724 UATA 66,69,32,80,62,79

83 52780 NNTA 65,77,32,45,72,46 189,726 NNTA 69,66,69,83,73,17,65 65 5279 NNTA 69,66,69,83,13,17 90 52780 NNTA 69,66,69,83,13,17 90 52780 NNTA 69,76,76,39,12,83 70 52792 NNTA 69,76,76,93,12,83 71 53,66 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,76 100,7

72,77 52816 DATA 71,82,65,77,83,67,67,65 93,2826 DATA 69,82,89,32,33, 20,2825 DATA 78,85,84,69,83, 20,2835 DATA 78,85,84,69,83, 22,2840 DATA 78,68,69,82,32, 22,2845 DATA 32,78,69,78,72, 98, 59315, 22,78,69,77,82,66,77



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Datamaker

Turn your machine code into Data with these t

Unless you have access to an assembler centring machine code data in a said problem. Since machine code is simply a series of mathem, counting them into your computer leads to all costs of circus, residing in your propagate is to the fact of the control of the

inciders to belg people to the more machine code progress. Even the magazines. These flower landers had the manhers that make up the machine members that make up the machine member being a chockness. The Londer Londers of the machine member being a chockness. The Londer Londers of the machine members and the machine members, adding each caneble or coperiors, when the total of each their coperiors, then the total of each their coperiors, then the total of each their coperiors and the total of each their coperiors. The machine their people have done committee great the same their you have done committee great the same their your have done committee great the same their your have done committee great the same their people and their

emispared with its checkwar, if they are not the bases they we have to been a set of the same they we have to been a set of the same they we have to be a set of the same that it is the Manch 1956 insee of Faurice requires for the O'Dalesmaker than would use a mainter could feel from a requires for the O'Dalesmaker than would use a similar would use a set of the form a set of the same than th

SAVE the machine code

an of the program. W in the old it of the program, now nested a miles of DATA, the combined miles of the program of the checkens and process is incenses, Since the checkens in unastry greater that this resulted in an illegal quantity miles in the line that held the Parkets of the program of

This new version of the prohas a check that stops the peage for marsher to be POK Dd into one in grunner shan 255, piving the has whele the DATA was read, not the of the POKE statement. As you or this makes finding typing errors union.

fact the program was used to mail header.

As already mentioned the machine code file that shot LOADed and EUN at recessory is 49152 (EC000 bea).

To start the program you con

To start the prog following command NEW SYS 49152

o soon on you press RETURN the cross will class and a prose "INSTRT EADER PROCESAM Y/N well EADER PROCESAM Y/N well poper. If you is notected the simple sodier programs shown in Figure 1 well or enterrol data memory. Data maker well work out the last, no of any programs alwardy in \$150.000.

r to an existing program.

Clear the reader has been out.

255 or if no (YO was selected a sec.

prompt SELECT DISK

GE MEMORY will be deplayed.

If MIMORY is selected far

prompts for start and end addre

nt if will be displayed. These manthers

sign.

If DESK is selected a filterame even be requested.

Owner the end has been reaccioned.

Data Maker will insert the number et. In blocks, line number and resence; s

address into the reader part (cely if reader was extend of source.) It shes return to Basic with the REA prompt.

Data Make

Data Misher 126 in a utility prografor the C126 companie with a citdrine. The program will take any fidus SOURCE programs, from the discouver it into DATA interesses a write it back to the disk under supplied filenames, the TARGI program. You will also be requested supply a START LINE NUMBER. as an incomment value for the DAT

FIGURE 1

POST COMMODOR

Hints and Tipe

Line 5020 POKES three carriage

C84 AND C128

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R1-D1

A car BLOW dood cooks from

Midi Music and You

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The Lingo

Like other aspects of music as consparies, MIDI has its own jurge It is important to disrigation between themes, an epicionally referred and tracks. Tracks works it as similar occusion on the processor of the process

neceder - orby you can't omer with. MIDI Track is in complete that you can will be a supplier or the young can with an audio track on tage Software package will generally always as record on their, ass, agint or It to provide the prov

often has its or

control which can't not end of surface and his 1 MIC washes control to MIC washes compared to the channel solution. In the case of the control of the contro

soine. Each voice soil be received a different MIDI channel and play, of course, celly one soile ince. Mall-industrial related in several results of course, celly one soile most one of the started. Typically, as they to go at started. Typically, as channel example, you could properly to go play a paint real line, the third opiny a string line and the fourth opiny a string line and the fourth opiny a representation on a fluid.

Plugging In

When we talk of intersection being pleaged into the componer, they are not a placeged in directly. The statement placeged in directly. The statement placeged in directly. The statement placeged in directly and statement placeged in the College of the College of

on an addressed as described earlier. Some is object to be seen insertions have a from to be public from a mail stank upprocedur, on contrast the speed of the main so mental overcibes can be made on so recent overcibes can be made on so seen and overcibes can be made on so seen and overcibes can be made on so seen and overcibes can be made on the seen of the seen and other control on the seen of the

A

three are two mans types of smith of special ways. The first and more common pp allows you to so record and play sock mere. The second land hope you are congrain the voices on digital synthes. Meet modern digital syntheses are not as easy to program as analogue machines. Their parameters are not are used to specially deployed as easibless and obtain you can only alter one parameter in a time. The previous is made only only approximate when you turn.

Vening Programs pine as on carcine graphic repotentiation of pulsameters and often the year above the most thin use courted in a time. You are smally sine the courte of soils at disks, and an additional properties of the courted of

time. Rad filed in when reconstructed by playing the chebonal - freed face by playing the chebonal - freed face in the playing the chebonal - freed face in the chebonal - freed face in the chebonal - freed face in the chebonal - freed size in face that you go go be completely good good, and and all the chebonal - freed face in the ch

membeds you can recent a prerequiring laws or more hamilto refer requiring laws or more hamilto refer accessed but you need a likely patient to pair in all the notes. Deliver of frence packages take elibertor of the pair of the packages take elibertor as an associator, you may prefer to the notes in suddiviously notes for the sorte in suddiviously notes for a sortering many field. The advantageous, too.

Other prequires adopt a most competer-oriented approach as competer-oriented approach as the package of the package of the packages.

computer-orientated approach as depuls on a rance pi octave number with a value for i octave number with a value for i to. how long the 'key' in held dow You will also need to enter data such patch changes and modalatie of numbers, sewething, which are time to put aroundly down as you pla and the non-emusician probably has a udvantage ever the musician here. I





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Welcome to the Machine

By Allen Webb

I whis against a some to consider box

Getting into M/C





SWORD, EAT SKAKE.
Extract the vorb and more it to
builtie starting at VERE and put it
longst into VERELEN.
Similarly move the noun to a built
starting at NOUN and its longst ion
NOUNLEN.
Conduct this simple method a
test compression. If you use just 3
chatacter, you only need for bits

Consider this example: 110-2. Character 1 — S0011111. Soffer Character 2 — S0011011. Character 3 — S500011. This compresses so:

This compresses to:

Byte 1: SEITHERH as
SOUTHERD

As you can see, char

of byse 2. Character three occupies 1 to bit 3 inchaire of byse 2. Bit byte 2 is set to near.

Your task is to:

1) Develop as algorithm is performs the compression.

2. We a market to do the lab.

 2) Write a routine to do this job us to far as possible logical shifts and and boolean instructions such as and AND.









Quick on the Draw

Via magner where you look, you are

The OCP Art Studio





Undo

Picasso's Revenge

Going from left to righ bottom of the screen the options are available:

This option allo LOAD your pic

Fill Mode

either a texture or solid colour. Aft selecting this option you simply golyour pen at the area that you want fill and away it goes. If the area the you choose for the fill ne't socially ecloud then the fill will not take place. This is currently areful as on son

Print

This option is used to dump the current graphics screen to you printer. As with the Art Seudo the printers town shades of grey to repo-

Magnification of an area of the scree is available with this command. One the screen is magnified yes can sens around the picture making change

Mirror This command is post for making Common pattern. Quite simple every di

tells patterns. Quan so rearray draw ing you draw will be retrieved in poin

and In use the actual accoracy of pen varies quite a lee, this all after just been sensitive the lifeworser, there is a trad

er just how sensitive the light secure, there is a trade ther the sensitivity the slo ual drawing, etc.

no from in the option that at the produce your 'northible' on Simply more the high pen on the ink will follow your p trail.

> The width of the broads that is one the draw option is selected with command, to the right of this window that shows you the widt the broads have a your the midt

med, to the right of this re that shows you the wid cash shat is currently in use our 2 ab The Art Shadir you bay

secondary colour for the train Careful are of this command can be to none extremely interesting that being displayed on the screen. Textures

Shape Menu

Sincising the option brings upone
to the terms.

Yes to deliver the terms and the terms of the te

complex graphics puckage flores one as theorem, it is great him to play with or can't help thinking that the program probably more untable for children states than an experienced artise. If fact that the light pen los't upsite accusate as other types of control to may also put some people off.

This progra

complex and runst versus his package that I have seen I 504. It isn't as easy to use as see e other packages available as the some extremely powerful on the Henever, time spent trying year was around the package w

As with the Bainhird puckage to regions can be controlled by inamber of different devices. Optiorizable include a mouse (the ND or MS2000 or a jusystick. My person inference in to use a mouse, those you do need quite a lot, of class de agent if you wish to see this contin-

space if you wish to not this option.

Arth of it is mean driven, benever,
unlike the provious rare packages the
means are say preced on the drawing
sarross, you have to soop between
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Swanity, Kent Lee Carray, Banbury Osce; Frances Dagaid, Aberden Scotland; Stewart Woods, Goole Numb Yorks.

Caption Competition

Aranda Barry of Ariotaseli, one of the leading lights of the software industry, has been having tone problem stating the real amounts of games which reads in the Ariotaselic Creme Carloten bankgaren. The

Cereat Cardien bankparten. The inautains has per out of hand and now she's here tourd's month and/or a poor can see in the phonograph.

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of presse ideas to make a Commodore owner's life really wortheddis. We'll also be publishing a superbicon program for the CSA. Extrided WMHS, it's a windows issue and means program. Our Owinimas issue will contain

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Audatas Editor Marie Corry
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Averlinanced Copy Coulde Laren Chapdon
Origination: Boory Typesting
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